

ECI830

Chemical Properties

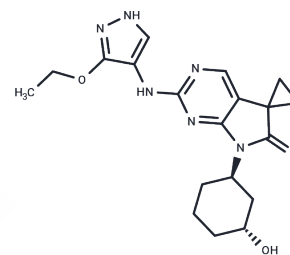
CAS No. : 3054692-62-2

Formula: C₁₉H₂₄N₆O₃

Molecular Weight: 384.43

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	ECI830 is a highly potent and selective oral small-molecule CDK2 inhibitor. By inhibiting CDK2 activity, ECI830 induces G1/S phase cell cycle arrest, thereby blocking DNA replication and tumor proliferation. ECI830 is suitable for use in studies of HR+/HER2- breast cancer and tumors with CCNE1 amplification.
Targets(IC50)	CDK
In vitro	ECI830 demonstrated significant antiproliferative activity in CCNE1-amplified ovarian cancer cell lines (OVCAR3) and lung cancer cell lines (H810). [1] The combination of ECI830 and ribociclib produced a synergistic effect in HR+/HER2- breast cancer cells, effectively inhibiting cell growth. [2]
In vivo	In a xenograft model of HR+/HER2- breast cancer cell line (MCF7) resistant to standard therapy, the combination of ECI830 and ribociclib exhibited synergistic effects, significantly inhibiting tumor growth. [1] Treatment with ECI830 in combination with ribociclib significantly regulated pRB1 in HR+/HER2 ⁻ breast cancer CDX and PDX models, demonstrating potent antitumor activity. ECI830 monotherapy effectively inhibited tumor growth in CCNE1-amplified tumor models.[2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6013 mL	13.0063 mL	26.0125 mL
5 mM	0.5203 mL	2.6013 mL	5.2025 mL
10 mM	0.2601 mL	1.3006 mL	2.6013 mL
50 mM	0.052 mL	0.2601 mL	0.5203 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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